

Xuelun (Sellen) Wei

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SUMMARY

Results-orientated, self-motivated Engineer with 2 + year working experience, worked in a fast-paced competitive start-up company. Ability to dig into issues, debug and solve problems individually.

SKILL

Programming: Object-oriented design using **Java**, **Swift4**, web development using HTML5, JavaScript;

Web & Data: REST API, JSON, MySQL, NoSQL (MongoDB), database operation using **SQL**

Computer Science: Data structures and algorithms; Distributed systems design (MapReduce)

Scripts & tools: Git, Docker, MAMP, Apache Tomcat, JUnit, JMeter, Amazon Web Service EC2

EDUCATION

- **Arizona State University, Tempe, Arizona** GPA: 3.9 / 4.0 **2013 - 2015**
Master of Science and Engineering in Electrical Engineering
- **Sichuan University, Chengdu, China** GPA: 3.7 / 4.0 **2009 - 2013**
Bachelor of Science and Engineering in Electrical Engineering

PROJECT EXPERIENCE

- **Dashi, A Personalized Restaurant Recommendation Web Service (Java)**
Dashi, aims to use personalization to improve restaurant search and recommendation based on search history and favorite record.
 - Developed an interactive web page (HTML5/CSS/Javascript) providing 3 main APIs to handle the HTTP requests of updating preference, searching / pushing recommended restaurants.
 - Built a customized web service (Java servlet, REST API) to fetch restaurant data from Yelp API and store user preferences (MySQL/MongoDB).
 - Improved content-based recommendation precision/recall by developing a collaborative filtering algorithm and matching similar restaurants based on categories.
 - Deployed server side to Amazon (Cloud computing) EC2 which is able to handle **150 queries per second** (QPS) tested by Apache JMeter.
- **ELK: User Behavior Analysis**
Implemented ELK to analysis users behavior based on location, device, service provider and etc.
 - Used Timelion timeline to identify peak season for resource usage on ElasticSearch project.
 - Utilized **Kibana** to analyze the geographic distribution of new customers and returning users.
 - Used **Google Firebase** to store and retrieve data including comments, images, descriptions, title, geolocations
- **IOS Apps Development (20+ apps with Xcode 9 & Swift 4)**
Eg. Pokemon Go, Whatsapp, QuizUp and Yahoo Weather.
 - Developed 20+ IOS apps based on MVC (Model-View-Control) design pattern using **Swift 4**.
 - Made asynchronous API calls and use the JSON format for server communication.
 - Used cloud- based infrastructure FireBase to store and retrieve data from Google Web Service.
 - Implemented artificially intelligent apps using iOS 11's new CoreML framework.
 - Created 3D objects in augmented reality and created animations and real-life interactions using Apple's latest ARKit framework.

WORK EXPERIENCE

- **Design Engineer, Dialog Semiconductor, Inc** **2015 - Present**
Dialog Semiconductor is the top power management supplier for Apple/Samsung/Huawei portable devices.
 - Worked in fast-paced design group to develop chip level hardware system, daily job includes improving and simulating high-quality products using software tools based on Linux environment.
 - Investigated design structures to meet market requirements. Products contributed 30% revenues.
 - Utilized LabView to automate test for double production test coverage and efficiency.
 - Evaluated test data of over 80 test cases, debugged 10 test failures and performed regression testing
 - Designed test strategies individually for debugging across multi-platforms.
 - Trained new grads with technical skills.